

## Omni-directional TETRA Band High Gain Fiberglass Collinear Antenna

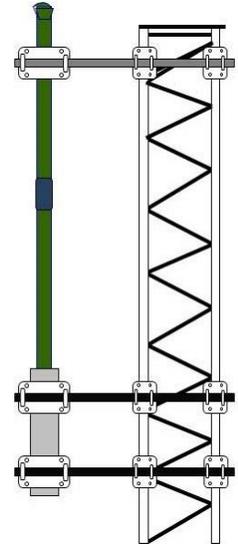
AC12-840

806-870 MHz.

12 dBi. Gain

**DESIGN FEATURES:** AC12-840 Fiberglass Omni-directional Collinear Antenna is rugged all weather model 6063T6 ultra corrosion resistant architectural aluminum, high class brass alloy and does not require any field tuning or adjustments. The antenna is supplied in two segments for easy of handling and shipping. The upper and lower portion of antenna is threaded together to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The antenna termination is enclosed at bottom of the antenna for complete weather protection.

**CONSTRUCTIONS:** The AC12-840 is a center fed design which eliminates the distortion of the radiation pattern and ensures a true omni-directional horizontal pattern. The special stub matching is used for smooth VSWR and constant 12dBi gain over the specified frequency band. The collinear antenna consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass tube. The mounting hardware is made of type 316 marine grade stainless steel and supplied with the antenna. AC12-840 high gain fiber glass collinear antenna is suitable for side mounting on the tower and is supplied with mounting hardware, including a non metallic 1.2 Meters (4 feet) long horizontal arm to hold the fiberglass omni-directional antenna at the top.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	806 - 870 MHz.
Gain	12 dBi
Bandwidth	Entire 806-870MHz Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	7 Degrees
VSWR – better than	1.5:1
RF Power Handling Capacity	200 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	20 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	4 Meters
Shipping Length	2.2 Meters
Support Pipe Outer Diameter	51 mm
Support Pipe Materials	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiberglass
Enclosure Outer Diameter	45 mm

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Azimuth & Elevation radiation patterns & frequency Vs VSWR of antenna.

Note: All information contained in the datasheet is subject to change without any prior notice.